

State of Colorado
Energy & Carbon Management Commission



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BRADENHEAD TEST REPORT

Step 1. Record all tubing and casing pressures as found. Step 2. Sample now. If intermediate or surface casing pressure > 25 psi. In sensitive areas, 1 psi.
Step 3. Conduct Bradenhead test. Step 4. Conduct intermediate casing test. Step 5. Send report to BLM within 3 days and to ECMC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. ECMC Operator Number: 10110 3. BLM Lease No: _____
 2. Name of Operator: GREAT WESTERN OPERATING COMPANY LLC
 4. API Number; 05-001-10258-00 5. Multiple completion? Yes No
 6. Well Name: B-Farm LD Number: 18-391HNX
 7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENW,7,1S,67W,6
 8. County ADAMS 9. Field Name: WATTENBERG
 10. Minerals: Fee State Federal Indian

11. Date of Test: 01/21/2020
 12. Well Status: Flowing
 Shut In Gas Lift
 Pumping Injection
 Clock/Intermitter
 Plunger Lift
 13. Number of Casing Strings:
 Two Three Liner?

14. EXISTING PRESSURES

Record all pressures as found	Tubing: _____ Fm: _____	Tubing: <u>716</u> Fm: _____	Prod Csg <u>969</u> Fm: _____	Intermediate Csg: _____	Surf. Csg <u>99</u>
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BRADENHEAD TEST

Buried valve? Yes No
 Confirmed open? Yes No
 With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals Define characteristics of flow in "Bradenhead Flow" column using letter designations below:
 O = No Flow; C = Continuous; D = Down to 0; V = Vapor
 H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas
 BRADENHEAD SAMPLE TAKEN?
 Yes No Gas Liquid
 Character of Bradenhead fluid: Clear Fresh
 Sulfur Salty Black
 Other:(describe) _____
 Sample cylinder number: _____

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermedia Csg PSIG	Bradenhead Flow:
00:00	<input type="checkbox"/>	<input type="checkbox"/> 716	<input type="checkbox"/> 969		
05:00	<input type="checkbox"/>	<input type="checkbox"/> 707	<input type="checkbox"/> 970		
10:00	<input type="checkbox"/>	<input type="checkbox"/> 709	<input type="checkbox"/> 971		
15:00	<input type="checkbox"/>	<input type="checkbox"/> 735	<input type="checkbox"/> 971		
20:00	<input type="checkbox"/>	<input type="checkbox"/> 774	<input type="checkbox"/> 970		
25:00	<input type="checkbox"/>	<input type="checkbox"/> 772	<input type="checkbox"/> 969		
30:00	<input type="checkbox"/>	<input type="checkbox"/> 767	<input type="checkbox"/> 969		

Instantaneous Bradenhead PSIG at end of test: > 0

INTERMEDIATE CASING TEST

Buried valve? Yes No
 Confirmed open? Yes No
 With gauges monitoring production, intermediate casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals Characterize flow in "Intermediate Flow" column using letter designations below:
 O = No Flow; C = Continuous; D = Down to 0; V = Vapor
 H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas
 INTERMEDIATE SAMPLE TAKEN?
 Yes No Gas Liquid
 Character of Intermediate fluid: Clear Fresh
 Sulfur Salty Black
 Other:(describe) _____
 Sample cylinder number: _____

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermedia Csg PSIG	Bradenhead Flow:
00:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
05:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
15:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
25:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
30:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Instantaneous Intermediate Casing PSIG at end of test: >

Comments: Test after 5 week blowdown and 1 week buildup. Blew down in ~ 1 minute to trickle and down to intermittent drip at 15 minute mark. Made ~ 3.5 gallons total during test.

Water sample was collected during 2019 NTO test and phase has not changed since then. No sample was collected.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed By: Max Trehus Title: Field Prod. Eng. Tech Phone: ()

Signed: Max Trehus Title: Field Prod. Eng. Tech Date: 1/30/2020

Witnessed By: _____ Title: _____ Agency: _____